## ISSUE SLIP STAPLE AREA (for additional cross references)

| POSITION                  | INITIALS | ID NO. | DATE    |
|---------------------------|----------|--------|---------|
| FEE DETERMINATION         |          |        |         |
| O.I.P.E. CLASSIFIER       |          |        | ·       |
| FORMALITY REVIEW          | RH       | 60128  | 5/30/02 |
| RESPONSE FORMALITY REVIEW |          |        |         |
| RESPONSE FORMALITY REVIEW |          | •      |         |

## INDEX OF CLAIMS

| ~  | Rejected                   | . N | Non-elected  |
|----|----------------------------|-----|--------------|
|    | Allowed                    | 1   | Interference |
|    | (Through numeral) Canceled |     | Appeal       |
| ٠. | Restricted                 | 0   | Objected     |

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|---------------------|-------------|--------------|------------|----------|--|----------|--------------|----------|--------------|--------------|--|-----------------|
| מ                   | _ [         | RES          | SPO        | NC       | SE   | FC       | R            | ΙAΙ      | _IT          | ΥŘ           | EV   | /IEV            |
| 7                   |             |              |            |          |  |          |              |          |              |              |  |                 |
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|                     | ,           |              |            |          |  |          |              |          |              |              |  |                 |
| 11                  | 1           |              |            |          |  |          |              |          |              |              |  |                 |
|                     |             |              |            |          |  |          | J            |          |              |              |  |                 |
| $\overline{\alpha}$ |             |              |            |          |  |          | _            | ••••     | •••••        | ••••         |  |                 |
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| 4                   |             |              |            |          |  |          | . –          | (1       | MO           | ugn          | IIU  | mei             |
| =                   |             |              |            |          |  |          | ÷            | •••      | •••••        | ••••         | ••••   | •••••           |
| Ø                   |             |              |            |          |  |          |              |          |              |              |  | _               |
|                     | Cla         | im           |            |          |  |          | Dat          | е        |              |              |  |                 |
| ⋖                   |             |              | M          | ~        | 2  |          |              | $\neg$   |              | T            | T  | ヿ               |
|                     | _,          | Ē            | 2          | 6        | 0  |          |              | - 1      |              | - 1          | - 1  |                 |
|                     | ina         | 문            | 2          | 3        | 100  |          |              | l        |              |              | - 1  |                 |
| ָנָט                | <u>u</u>    | 윉            |            | 9        | *  |          |              | $\dashv$ | -            | $\dashv$     | $\dashv$   | $\dashv$        |
| Щ                   | 1           | Ч            |            |          | -  |          | Ŀ            | _        | _            |              | $\dashv$   |                 |
| 0                   | Z           |              | 4          |          | *  | _        |              |          |              | _            | _  |                 |
|                     | 3           | 3            | =          | 2        | τ  |          |              |          |              |              |  |                 |
|                     | 4           |              | Ξ          | =        | =  |          |              |          |              |              |  | $\Box$          |
|                     | 5           | 5            | =          |          | ~  | _        |              |          |              | T            | _ [  |                 |
|                     | 6           |              | =          | 5        |  |          |              |          |              | $\neg$       | $\neg$   |                 |
|                     | 7           |              |            | =        | آءِ  |          |              | П        |              | $\neg$       | ヿ  |                 |
|                     |             | 8            |            |          | ٣  |          |              | Н        | -            | $\dashv$     | 寸  | $\neg$          |
|                     | 0           | ٥            |            | _        | -  |          |              |          | -            | _            | -  | $\dashv$        |
| ).                  |             | 10           | -          | -        |  | -        |              | -        | -            | $\dashv$     | -  | $\dashv$        |
|                     | 3           | 10           | _          | =        | =  | _        |              |          |              | $\dashv$     |  | $\dashv$        |
| ).                  | 1           | 11           | _          | =        |  |          | <u> </u>     | -        |              |              | $\dashv$   | -               |
| •                   | 12          | 12           | ۲.         | -        | =  | _        | _            | <u> </u> | -            |              |  | -               |
|                     | 13          | 13           | Ξ          | 1        | =  | _        |              | _        |              |              | $\dashv$   |                 |
|                     | 14          | (14)         | ):         | :        | 5  |          |              |          |              |              |  | :ٰلــٰ          |
| 1                   | -15         | 15           | =          | ¥        | 2  |          |              |          |              |              |  |                 |
| a 1                 | 16          | 16           | Ç          | 11       | "  |          |              |          |              |              |  |                 |
| ) (                 | 13          | 17           | Ę.         | 2        | ×  |          |              |          |              |              |  |                 |
| . ,                 | 14          | 18           | Ξ          | =        | Ξ  | Г        |              |          |              |              | $\overline{}$                                    |                 |
| 8                   | 4           |              | -          |          | =  | $\vdash$ |              |          |              |              |  |                 |
|                     | 2           | 20           | -          |          |  | ┢        | $\vdash$     | $\vdash$ |              |              | $\neg$   |                 |
| ٠                   | H           | 20           | =          |          | ᆖ  | -        | ┢            | -        |              | _            |  | $\dashv$        |
|                     | ~           | 21           | 드          |          | =  |          | ├            | -        |              |              | -  | $\dashv$        |
| •                   | 1           | 24           | E          | =        | 1~   | ļ        |              | L        | _            |              | _  | -               |
|                     | 73          | <u> </u>     | =          | 3        | 12   | <u> </u> | <u> </u>     | <u> </u> |              |              |  | Н               |
|                     | H           | 24           | =          |          | E  | L        | L            |          |              |              |  | Ш               |
|                     | 25          | 25           | =          | 2        |  |          | <u> </u>     | L        |              |              |  |                 |
| •                   | 4           | 26           | =          | Ę        | =  | 1        |              | L        |              |              |  |                 |
| •                   | 23          | 27           | =          | =        | =  |          |              | 1        |              |              |  |                 |
|                     |             | 00           | <b>5</b> 7 |          |  |          |              |          |              |              |  |                 |
| ٠. ١                | 29          | 29           | 1          | 1.1      |  |          | Π            |          |              |              |  |                 |
|                     | 30          | 30           | マ          | 1        | Ξ  |          | 1            |          |              |              | П  |                 |
|                     |             | 24           | J          | Γ.       | 1  | <u> </u> | T            | 1        | <u> </u>     |              | _  | П               |
|                     | 2.5         | 32           |            | レ        | =  |          | $t^-$        | Т        | T            | _            |  | $\vdash$        |
|                     |             | 33           | $\vdash$   | Ė        | <del>                                     </del> | $\vdash$ | <del> </del> | 1        | $\vdash$     | <del> </del> |  | Н               |
|                     | <del></del> | _            | —          | $\vdash$ | <del> </del>                                     | -        | 1            | +        | <del> </del> | $\vdash$     | $\vdash$   | $\forall$       |
| "                   | _           | ₩-           | ├          | ┝        | ╁  | ╁        | ╁            | -        | $\vdash$     | ┝            | -  | $\vdash$        |
| -(                  | -           | -            | ├-         | ⊢        | ⊢  | ╁        | ┼            | $\vdash$ | ├-           | -            | ⊢  | $\vdash$        |
|                     | <u>-</u>    | <del> </del> | ┢          | ⊢        | ⊢  | ├-       | ╁            | ╁        | ├            |              | ⊢  | $\vdash$        |
| E                   |             | -            | ┝          | <u> </u> | ╄  | 1        | 1            | ⊢        | -            | <u> </u>     | -  | Н               |
| •                   | L           | -            | <u> </u>   | Ļ        | 1_   | ↓_       | 1            | ↓_       | <u> </u>     | <u> </u>     | <u> </u>   | Ш               |
|                     |             | 39           | _          | L        | <u> </u>   | <u> </u> | <u> </u>     | 1_       | _            |              | L  | Ш               |
|                     |             | 40           | 1          |          |  |          |              |          | 1            | 1            | l  | Ш               |
|                     |             | 41           |            |          | Γ  | Γ        |              |          |              | Ι.           | _  |                 |
|                     |             | -            | _          | T        | 1  | T        | 1            | $\vdash$ | T            | Ė            | Г  | П               |
|                     | -           | -            | H          | $\vdash$ | 1  | t        | 1-           | 1        | 1            |              | $\vdash$   | $\vdash$        |
|                     | $\vdash$    | ₩            | -          | $\vdash$ | ╁╌   | +        | +            | +-       | $\vdash$     | -            | <del>                                     </del> | $\vdash$        |
|                     | -           | -            |            | -        | +-   | +        | +-           | +        | +            | -            | $\vdash$   | $\vdash \vdash$ |
|                     | -           | +-           | +          | ╀        | +-   | +        | +            | ╁╴       | ╀            | ├-           | $\vdash$   | $\dashv$        |
|                     | -           | 46           | +          | -        | +-   | +        |              | +        | <del> </del> |              | ⊢  | ⊣               |
| •                   | _           | 47           | -          | $\vdash$ | $\perp$  | $\vdash$ | -            | +        | -            | -            | <del> </del>                                     | $\vdash$        |
|                     | <u>_</u>    | 48           | +-         | ↓        | 1  | ╄-       | $\perp$      | 1        |              | <b>├</b> -   | ╄-   | $\vdash$        |
|                     |             | 49           | +          | 1        | $\perp$  | L        | 4_           | 1_       | ↓_           | ┞-           | 1  | Ш               |
|                     |             | 50           | L          | L.       | 1_   | 1        | 1.           | 1_       | <u> </u>     |              | L  | Ш               |

|   | Claim        |          | Date                                   |  |              |              |          |  |          |              |          |  |  |
|---|--------------|----------|--|--|--------------|--------------|----------|--|----------|--------------|----------|--|--|
|   | Final        | Original |  |  |              |              |          |  |          |              |          |  |  |
| 1 |              | 51       |  |  |              |              |          | П  |          |              |          |  |  |
| 1 |              | 52       |  |  | Г            | П            |          |  |          |              |          |  |  |
|   |              | 53       |  |  |              |              |          |  |          |              |          |  |  |
|   |              | 54       |  |  |              |              |          |  |          |              |          |  |  |
|   |              | 55       |  |  |              |              |          |  |          |              |          |  |  |
|   |              | 56       |  | _  |              | L            |          | •  | L        |              |          | L  |  |
| į |              | 57       |  |  | L            | _            | _        | _  |          |              | L        |  |  |
| 1 |              | 58       | Ŀ                                      | _  | L            | _            | <u> </u> | _  |          |              |          | <u> </u>   |  |
|   |              | 59       |  | ļ  | _            | <u> </u>     | ļ        | <u> </u>   |          | <u> </u>     |          |  |  |
|   | _            | 60       | <u> </u>                               | ļ  | _            | <u> </u>     | <u> </u> | ┞  | -        | _            | H        | _  |  |
|   | _            | 61       |  | -  | ļ            | <del> </del> | <u> </u> | ļ  | _        | -            | <u> </u> | -  |  |
|   |              | 62       | _                                      | <u> </u>   | _            |              |          | ├  | <u> </u> | ├            | H        | H  |  |
|   | <u> </u>     | 63       | $\vdash$                               | <u> </u>   | $\vdash$     | $\vdash$     | <u> </u> | -  | -        | <del> </del> | $\vdash$ | -  |  |
|   | <u> </u>     | 64<br>65 | -                                      | -  | $\vdash$     | ├            | -        | -  | ├-       | -            | -        | $\vdash$   |  |
|   | $\vdash$     | 66       | -                                      | $\vdash$   | -            | $\vdash$     | -        | ╁  | -        |              |          | $\vdash$   |  |
|   | $\vdash$     | 67       | -                                      | H  | -            | -            | -        | -  | $\vdash$ | -            | -        | $\vdash$   |  |
|   | <del> </del> | 68       | $\vdash$                               |  | $\vdash$     | +-           | $\vdash$ | $\vdash$   | -        | $\vdash$     | $\vdash$ | <del>                                     </del> |  |
|   | $\vdash$     | 69       | $\vdash$                               | -  | Н            | $\vdash$     | $\vdash$ | $\vdash$   | $\vdash$ | $\vdash$     |          | H  |  |
|   | $\vdash$     | 70       | ╁                                      | _  | 1            | $\vdash$     | -        | <del>                                     </del> | H        | -            | ┢        | $\vdash$   |  |
|   | -            | 71       | -                                      | -  | ╁╌           | +            | -        | ┼─   | $\vdash$ | -            | ┢        | H  |  |
|   | -            | 72       | -                                      | <u> </u>   | H            | +-           | 1        | $\vdash$   | 1-       | T            | -        | <del>                                     </del> |  |
|   | H            | 73       |  | <del>                                     </del> |              | 1            | 1        | 1  | <u> </u> | 1            | T        |  |  |
|   | <del> </del> | 74       |  | 1  | T            | 1            | T        |  | 1        |              | T        | Τ  |  |
|   | Г            | 75       | Г                                      |  |              | İ            | Γ        |  |          |              |          |  |  |
|   |              | 76       |  |  |              |              |          | Τ  | L.       |              |          |  |  |
|   |              | 77       |  |  |              |              |          | L  | _        |              |          |  |  |
|   | L            | 78       |  | L  |              | <u> </u>     | _        | _  | ┖        | Ļ            | <u> </u> |  |  |
|   |              | 79       | _ـــــــــــــــــــــــــــــــــــــ |  | <u> </u>     | <u> </u>     |          | 1  | _        | <del> </del> | _        | _  |  |
|   | L            | 80       | _                                      | <u> </u>   | Ļ            | $\perp$      | ↓_       | 1  | ↓_       | ļ.,          | _        | <u> </u>   |  |
|   | L            | 81       | -                                      | ▙  | <del> </del> | ŀ            | ┞-       | ╁  | ╄        | -            | ┡        | $\vdash$   |  |
|   | $\vdash$     | 82       |  | ╀  | ╀            | +-           | -        | +  | ┼-       | $\vdash$     | ┼        | ╀  |  |
|   | -            | 83       | <b>—</b>                               | ┼-   | $\vdash$     | +            | +-       | $\vdash$   | $\vdash$ | ╁            | ╀        | +-   |  |
|   | $\vdash$     | 85       | -                                      | ╁  | ╁            | +            | +        | +-   | $\vdash$ | +            | +-       | ┢  |  |
|   | $\vdash$     | 86       |  | +  | +            | +            | +        | +  | +        | +-           | +        | t  |  |
|   | $\vdash$     | 87       |  | ╁  | +            | +            | -        | +  | +        | +            | t        | t  |  |
|   | $\vdash$     | 88       |  | †  | $\dagger$    | +            | $\top$   | T  | T        | $\dagger$    | 1        | $\top$   |  |
|   |              | 89       |  | T  | †            | $\dagger$    | $\top$   | T  | T        | 1            | T        |  |  |
|   |              | 90       | +-                                     |  | T            | $\top$       | 1        | Τ  | Т        | 1            | 1        | T  |  |
|   | $\vdash$     | 91       | T                                      | 1  | T            | $\top$       | 1        | 1  | T        | T            | T        | T  |  |
|   |              | 92       | _                                      | T  | †            | T            | $\top$   | 1  | †        | $\top$       |          |  |  |
|   |              | 93       | _                                      |  | 1            | $\top$       |          |  | Τ        |              | Ι        | Ι  |  |
|   |              | 94       | _                                      | Ι  | Τ            |              |          | $\prod$  | Ι        | Γ            | T.       | Ι  |  |
|   |              | 95       |  | Ι  | Ι            | I            | I        |  |          |              | I        | I  |  |
|   |              | 96       |  | Γ  | I            | I            | Γ        | I  |          | I            | L        | Ĺ  |  |
|   |              | 97       |  |  | I            |              | Ŀ        |  | Ĺ        | L            | 1        | 1  |  |
|   | L            | 98       | _                                      | L  | 1            | $\perp$      | 1        | 1  | $\perp$  | 1            | $\perp$  | $\bot$   |  |
|   | _            | 99       |  | _  | $\perp$      | 1            | +        | +  | 4        | $\perp$      | 4-       | +  |  |
|   | L            | 10       | 9_                                     | 1  | 1            |              |          |  |          | 丄            | _        | 1  |  |

| Cla      | Claim Date |          |              |          |           |  |                    |          |              |              |          |
|----------|------------|----------|--------------|----------|-----------|--|--------------------|----------|--------------|--------------|----------|
| 3,0      |            |          |              |          | Γ.        | T                                      |                    |          |              |              |          |
| _        | Original   |          |              |          |           |  |                    |          |              |              |          |
| Final    | rig        | -        |              |          | 1         |  |                    |          |              |              |          |
| ij.      |            |          |              | _        | <b>├</b>  | ╄                                      | -                  | _        |              |              |          |
| _        | 101        |          | <u> </u>     | Ŀ        | ļ         | ــــــــــــــــــــــــــــــــــــــ | <u> </u>           | _        |              | Ш            |          |
| Ŀ        | 102        |          |              |          | _         |  | <u> </u>           |          | _            |              |          |
|          | 103        |          |              | l        |           | <u> </u>                               |                    |          |              |              |          |
|          | 104        |          |              |          |           |  |                    |          |              | $oxed{oxed}$ |          |
|          | 105        |          | Ŀ            |          | L         |  | _                  |          |              |              |          |
|          | 106        |          |              |          | L         | L_                                     |                    |          | <u> </u>     |              |          |
|          | 107        |          |              |          |           |  | L                  | ø        |              |              |          |
|          | 108        |          |              |          |           |  | ļ                  |          |              |              |          |
|          | 109        |          |              | ļ .      |           | $\Gamma$                               |                    |          |              |              |          |
|          | 110        |          |              |          |           | T                                      |                    |          |              |              |          |
|          | 111        | Г        |              |          | Γ         |  | П                  |          |              | Г            |          |
|          | 112        |          |              | Γ        |           |  | Т                  | Г        |              |              |          |
|          | 113        | -        | Г            | T        | Τ         | $\top$                                 |                    | Г        | <u> </u>     |              |          |
|          | 114        | -        | T            | Π        | T         | 1                                      | $\top$             |          |              |              |          |
|          | 115        |          | 1            | Т        | 1         | T                                      | 1                  | $\vdash$ |              |              | Γ        |
| $\vdash$ | 116        |          | $\vdash$     | 1        | t         | +                                      | 1                  | Т        |              | Т            |          |
| $\vdash$ | 117        |          | $\vdash$     | -        | +         | +                                      | ╁                  |          | -            | $\vdash$     |          |
| -        | 118        |          | ┼-           | ┢        | +         | +                                      | $\vdash$           | ┼┈       | -            | $\vdash$     | -        |
| $\vdash$ | 119        |          | ╁            | -        | +         | +                                      | +                  | $\vdash$ |              | $\vdash$     | $\vdash$ |
| $\vdash$ | 120        | -        | ╁            | ┼        | +         | ╁                                      | ╁                  | $\vdash$ | -            | $\vdash$     | $\vdash$ |
| $\vdash$ | 1          | _        | ├            | <u> </u> | ╁.        | +                                      | <del> </del>       | $\vdash$ | ├            | ⊢            | <u> </u> |
| -        | 121        | +        | <del> </del> | ļ_       | -         | -                                      | ╄-                 | ┼        | ┝            | ├-           | ┝        |
| $\vdash$ | 122        |          | ـ            | -        | ┼         | +-                                     | $\vdash$           | ╀        | ـــ          | -            | -        |
| _        | 123        |          | ļ            | ┡        | $\perp$   | ┿                                      | 1                  | -        | _            | -            | <u> </u> |
|          | 124        | -        | _            | <u> </u> | _         | <u> </u>                               | ↓_                 | Ľ        | <u> </u>     | <u> </u>     | L        |
| _        | 125        |          | _            | ļ.       | 1_        | $\bot$                                 | <del> </del>       | ╄        | ╙            |              | L        |
| $\vdash$ | 126        | +        | _            | 1_       | 1_        | _                                      | $oldsymbol{\perp}$ | ļ        | _            | ╙            | _        |
| L        | 127        |          | 1_           | ╙        | ↓         | _                                      | <u> </u>           | <u> </u> | _            | 丄            | L        |
| _        | 128        |          | L            |          |           | ┸                                      | _                  | <u> </u> | ┖            | 1_           | _        |
|          | 129        | 1_       | _            | L        |           | ┸                                      | _                  |          | L            | 上            |          |
|          | 130        |          |              |          |           |  |                    |          |              |              | L        |
| Г        | 13         | 1        |              | L        |           |  | 1_                 |          | L            |              | L        |
|          | 132        |          |              | Ι        | Ι         | $\perp$                                | $\perp$            |          |              | L            |          |
|          | 133        | 3        |              |          | Ι         |  | $\prod$            |          |              | L            | L        |
|          | 13         |          | T            | Г        | T         | T                                      | $\Gamma$           |          |              |              |          |
|          | 13         | 1        | T            | T        |           | Τ                                      | Т                  | Γ        |              |              |          |
|          | 13         | 9        | Г            | T        | 1         | T                                      | T                  |          |              | Γ            |          |
|          | 13         | 1        | Τ            | T        | T         | 1                                      |                    | Т        | Γ            | Ι            |          |
|          | 138        | -        | 1            | T        | $\dagger$ | 1                                      | 1                  | Т        | 1            | T            | T        |
|          | 139        |          | T            |          | T         | $\top$                                 |                    | 1        | T            | Τ            | 1        |
|          | 140        |          | T            | +        | $\dagger$ | $\top$                                 | $\top$             | T        | †            | $\dagger$    | T        |
| $\vdash$ | 14         |          | +            | +        | +         | +                                      | +-                 | +        | +            | +-           | T        |
| $\vdash$ | 14         |          | +            | +        | +         | +                                      | +                  | +        | +            | +            | +        |
| $\vdash$ | 14         | 1        | +            | +        | +         | +                                      | +                  | +        | +            | +            | +        |
| $\vdash$ | 14         |          | ┿            | +-       | +         | +                                      | ╁                  | +        | +            | +            | +        |
| -        |            |          | +            | +        | +         | +                                      | +                  | ┿        | ╁            | +            | +-       |
| -        | 14         |          | +            | +        | +-        | +                                      | +                  | +        | +            | +-           | +        |
| -        | 14         | <u> </u> | +            | +        | +         | +                                      | +                  | +        | +            | +            | +        |
| L        | 14         |          | 1            | 1        | 4         | _                                      | 1                  | $\bot$   | $\downarrow$ | 1            | +        |
| $\vdash$ | 14         |          | $\perp$      | 1        | 4         | 4.                                     | 4_                 | 4        | $\perp$      | +-           | 1        |
|          | 14         | 9        | 上            | 1        | $\perp$   | $\perp$                                | $\perp$            | 1        | $\perp$      | $\perp$      | 1        |
| 1        | 15         | O        | 丄            | L        |           |  | 上                  | Т        | $\perp$      |              | Ŀ        |